



(19) 03028577 A

(11) Publication number:

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 01163057

(51) Int'l. Cl.: F16J 15/10 C09K 3/10 F23D 14/18 F23D
14/46

(22) Application date: 26.06.89

(30) Priority:

(43) Date of application 06.02.91
publication:(84) Designated contracting
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(57) Abstract:

PURPOSE: To prevent unburnt
component from leaking out of a gas
seal member by causing a sheet made
of unexpanded vermiculite,
heat-resistant inorganic fiber, ceramic
powder of high specific surface area,
and inorganic binder to carry platinum
moly metal.

CONSTITUTION: A sheet or felt is

mae of 20-77weight% of unexpanded vermiculite, 20-77weight% of heat-resistant inorganic fiber, 2.7-18weight% of ceramic powder having a high specific surface area, and 0.3-3weight% of inorganic binder. This sheet or felt is dipped in a water solution of platinum family metallic salt, dried, and heat-treated so that certain amount of platinum family metal is carried to form an expansive gas seal member. The unexpanded vermiculite is a mica mineral having the property of expanding about ten times in the direction perpendicular to cleavage and losing water when heat-treated.

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